

1. Introduction

1.1 Product Overview

We have developed an agent-based intelligent shopping system that uses multi-agent collaboration to meet personalized shopping needs. The system includes a human-computer interaction agent and multiple functional agents that automatically break down user shopping requirements (such as budget, preferences, and purpose) into subtasks. These subtasks are handled by e-commerce agents (such as Amazon) for queries, and the results are integrated to generate a shopping plan. The core features of the system are modularity and scalability, supporting dynamic adjustments and rapid iterations for optimization.

1.2 Purpose of the Manual

This manual aims to help users fully understand and efficiently use the intelligent shopping system. Through detailed guidance and instructions, users can easily get started and make the most of the system's features to meet personalized shopping needs. The manual is suitable for all users who wish to understand the system's functions and operations, including first-time users and advanced users seeking in-depth knowledge of the system's characteristics.

1.3 Project Background

The shopping system is based on the MoFa (<https://github.com/moxin-org/mofa>) intelligent agent software framework and developed by the SIMPLEST team as an intelligent shopping system that works through multi-agent collaboration. MoFa is a software framework for building AI agents using a compositional approach. Using MoFa, agents can be constructed through templates and combined in layers to form more powerful super agents, achieving enhanced functionality.

2. Software Overview

2.1 Objectives

Automated Requirement Analysis: Extract key information such as shopping budget, product preferences, and usage scenarios from user text input.

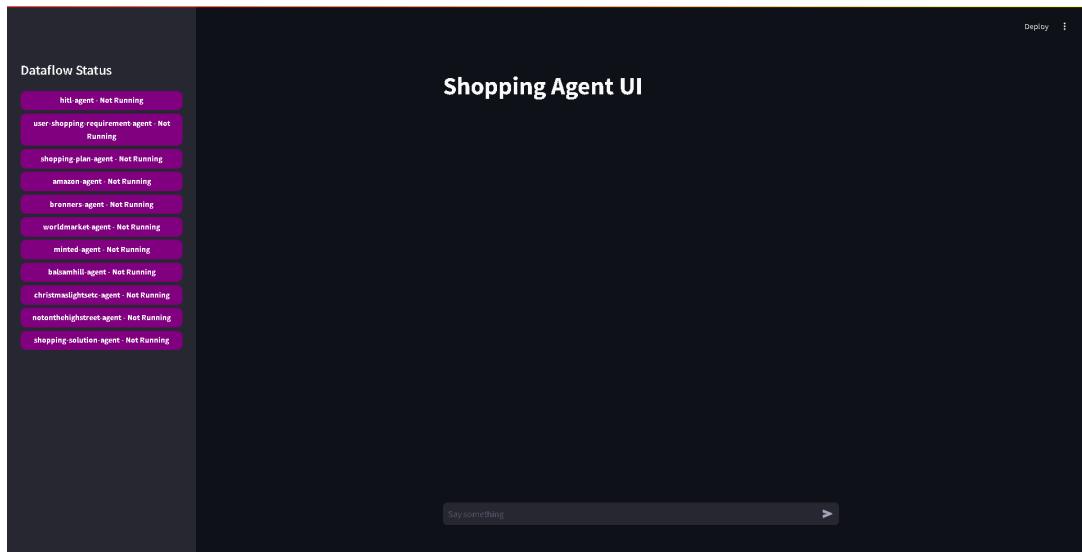
Task Decomposition and Planning: Automatically generate a list of query tasks based on user needs (e.g., search instructions for multiple e-commerce platforms).

Multi-source Information Aggregation: Obtain product information (price, specifications, stock, etc.) from different e-commerce agents, and perform cross-platform comparison and filtering.

Plan Generation and Feedback: Provide users with candidate shopping plans and support user feedback and further adjustments.

2.2 Features

2.2.1 Front-end Features



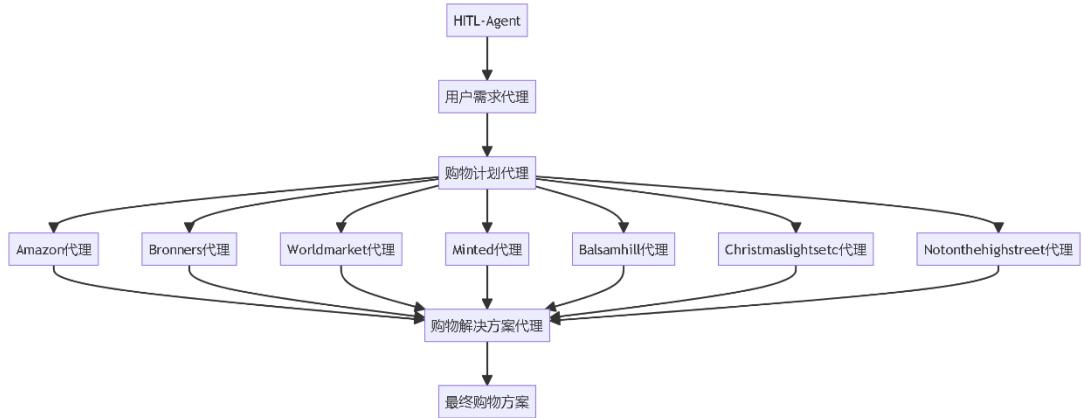
Dataflow Status Panel: Displays the operational status of various agents. Users can check whether each agent (e.g., HITL, Amazon, Bronners) is running, making it easy to monitor the overall system status. Note: Due to competition time constraints, there may be inaccuracies or delays in agent status updates. These will be addressed and improved in future versions.

Chat Window: Users can enter shopping needs and preferences here. The system will respond through the human-computer interaction agent and provide personalized shopping suggestions.

Real-time Feedback: The interface shows tasks currently being processed (e.g., “Bot is typing...”), allowing users to understand the current progress.

Input Box: Users can enter new commands or adjust preferences at any time in the input box at the bottom. The system will adjust its response strategies and provide more tailored feedback based on the input.

2.2.2 Back-end Features



a. HITL-Agent (hitl-agent)

Role: Entry point for user-system interaction.

Function: Receives initial user needs (`user_input`) and feedback on plans (`shopping_solution_user_input`, `shopping_plan_user_input`), such as "prefer NVIDIA graphics card" or "increase budget to 8500 yuan."

b. User Shopping Requirement Agent (user-shopping-requirement-agent)

Function: Parses vague, natural language user needs into structured data for subsequent planning.

c. Shopping Plan Agent (shopping-plan-agent)

Function: Breaks down tasks into multiple e-commerce search instructions based on user needs, providing clear query parameters for each platform agent (e.g., search price range, brand, product type).

d. E-commerce Agents (e.g., amazon-agent, bronners-agent, worldmarket-agent,

minted-agent, balsamhill-agent, christmaslightsetc-agent, notonthehighstreet-agent)

Function: Perform product queries and data retrieval for specific platforms, providing candidate product data for plan generation.

e. **Shopping Solution Agent (shopping-solution-agent)**

Function: Filters, combines, and ranks candidate products based on user needs and data returned from each platform, generating the final shopping plan.

The core processing logic involves modular task decomposition and execution, achieving fast, personalized shopping plan generation through parallel processing by multiple agents.

3. Operating Environment

3.1 Supported Software

a. **Operating System:**

Windows with WSL or Linux (Ubuntu 20.04 and above) and macOS .

b. **Programming Language and Compilation System:**

Python 3.10 and above.

c. **Other Necessary Software:**

Chrome and Chromedriver

To install necessary components, run:

```
sudo apt-get update  
sudo apt-get install -y curl unzip xvfb libxi6 libgconf-2-4  
wget https://dl.google.com/linux/direct/google-chrome-stable_current_amd64.deb  
sudo apt install ./google-chrome-stable_current_amd64.deb
```

Ensure Chrome is installed successfully:

```
google-chrome --version
```

Get the Chromedriver version that matches the installed Chrome version from:

<https://chromedriver.chromium.org/>

Download, unzip, and configure the environment:

```
# Replace with the correct version number for your installed browser  
wget https://chromedriver.storage.googleapis.com/86.0.4240.22/  
chromedriver_linux64.zip  
unzip chromedriver_linux64.zip  
sudo mv chromedriver /usr/bin/chromedriver  
sudo chown root:root /usr/bin/chromedriver  
sudo chmod +x /usr/bin/chromedriver
```

Ensure Chromedriver is installed successfully:

```
chromedriver --version
```

If you have previously installed Chromedriver on Windows and added its path to PATH, ensure it now points to the newly extracted Chromedriver.

```
1 | which chromedriver  
2 | # should be /usr/bin/chromedriver
```

For more detailed steps, please refer to the deployment documentation in the source code repository.

For Mac Users: Please refer to Install ChromeDriver on Mac for detailed instructions.

["https://www.swtestacademy.com/install-chrome-driver-on-mac/"](https://www.swtestacademy.com/install-chrome-driver-on-mac/)

4. Quick Start

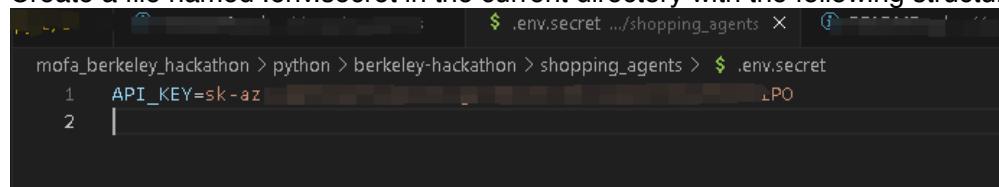
4.1 System Initialization

4.1.1 Start the Backend

Make sure to run the files in the order described below. Incorrect startup sequence will

result in failure to run.

- a. First, navigate to the python/berkeley-hackathon/shopping_agents directory.
Create a file named .env.secret in the current directory with the following structure:

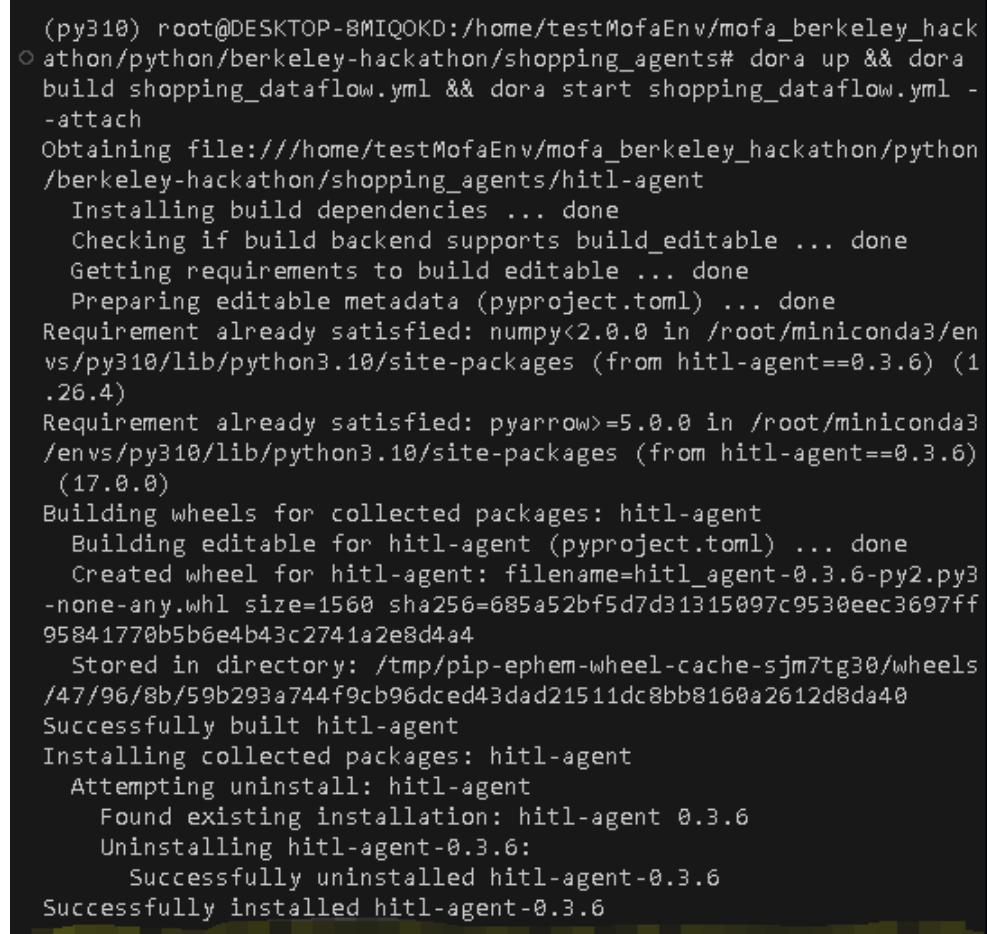


```
mofa_berkeley_hackathon > python > berkeley-hackathon > shopping_agents > $ .env.secret
1 API_KEY=sk_az
2 |
```

- b. Run the following command in the current directory:

```
dora up && dora build shopping_dataflow.yml && dora start shopping_dataflow.yml --attach
```

If you see the ID number in the red box as shown in the image, it means the dataflow has started successfully.



```
(py310) root@DESKTOP-8MIQOKD:/home/testMofaEnv/mofa_berkeley_hackathon/python/berkeley-hackathon/shopping_agents# dora up && dora build shopping_dataflow.yml && dora start shopping_dataflow.yml --attach
Obtaining file:///home/testMofaEnv/mofa_berkeley_hackathon/python/berkeley-hackathon/shopping_agents/hitl-agent
  Installing build dependencies ... done
  Checking if build backend supports build_editable ... done
  Getting requirements to build editable ... done
  Preparing editable metadata (pyproject.toml) ... done
Requirement already satisfied: numpy<2.0.0 in /root/miniconda3/envs/py310/lib/python3.10/site-packages (from hitl-agent==0.3.6) (1.26.4)
Requirement already satisfied: pyarrow>=5.0.0 in /root/miniconda3/envs/py310/lib/python3.10/site-packages (from hitl-agent==0.3.6) (17.0.0)
Building wheels for collected packages: hitl-agent
  Building editable for hitl-agent (pyproject.toml) ... done
  Created wheel for hitl-agent: filename=hitl_agent-0.3.6-py2.py3-none-any.whl size=1560 sha256=685a52bf5d7d31315097c9530eec3697ff95841770b5b6e4b43c2741a2e8d4a4
  Stored in directory: /tmp/pip-ephem-wheel-cache-sjm7tg30/wheels/47/96/8b/59b293a744f9cb96dc43dad21511dc8bb8160a2612d8da40
Successfully built hitl-agent
Installing collected packages: hitl-agent
  Attempting uninstall: hitl-agent
    Found existing installation: hitl-agent 0.3.6
    Uninstalling hitl-agent-0.3.6:
      Successfully uninstalled hitl-agent-0.3.6
Successfully installed hitl-agent-0.3.6
```

- c. In another command terminal, run the hitl-agent.

```
(py310) root@DESKTOP-8MIQOKD:/home/testMofaEnv/mofa_berkeley_hackathon/python/berkeley-hackathon/shopping_agents# hitl-agent
Server running on 127.0.0.1:12345...
Connected by ('127.0.0.1', 56752)
[]
```

d. Open a third command terminal and run the following command:

```
cd /mofa_berkeley_hackathon/python/berkeley-hackathon/ui && streamlit run socket_client.py
```

This will open your page.

```
(py310) root@DESKTOP-8MIQOKD:/home/testMofaEnv/mofa_berkeley_hackathon/python/berkeley-hackathon/ui# streamlit run socket_client.py

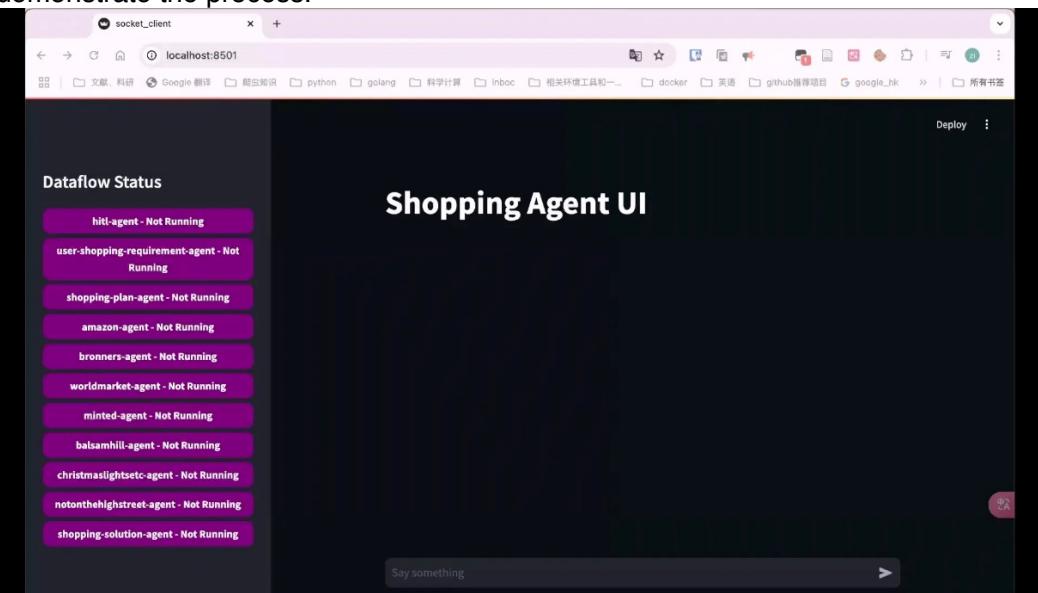
You can now view your Streamlit app in your browser.

Local URL: http://localhost:8501
Network URL: http://172.29.214.57:8501
```

Ensure that your port 12345 is not occupied. If it is, use lsof -i :12345 to check the process ID occupying it, and use kill -9 to terminate it.

4.2.2 Front-end Usage

We will use "setting up a Christmas scene with decorations" as an example to demonstrate the process.



If you successfully start the backend, it will automatically redirect to the webpage shown above. Next, begin your dialogue task in the conversation box on the webpage.

Step 1: Express Your Needs

"Hey, I'm thinking about decorating my home for Christmas. I want it to feel cozy with lights, a nice tree, and some fun ornaments."

The screenshot shows two browser windows side-by-side. The left window displays a 'Dataflow Status' sidebar with various agent names and their status (e.g., hitl-agent - Not Running, user-shopping-requirement-agent - Running). The right window shows the 'Shopping Agent UI' with a message from the user: "Hey, I'm thinking about decorating my home for Christmas. I want it to feel cozy with lights, a nice tree, and some fun ornaments." Below this, a bot response says "Bot is typing...". A 'Say something' input field is at the bottom.

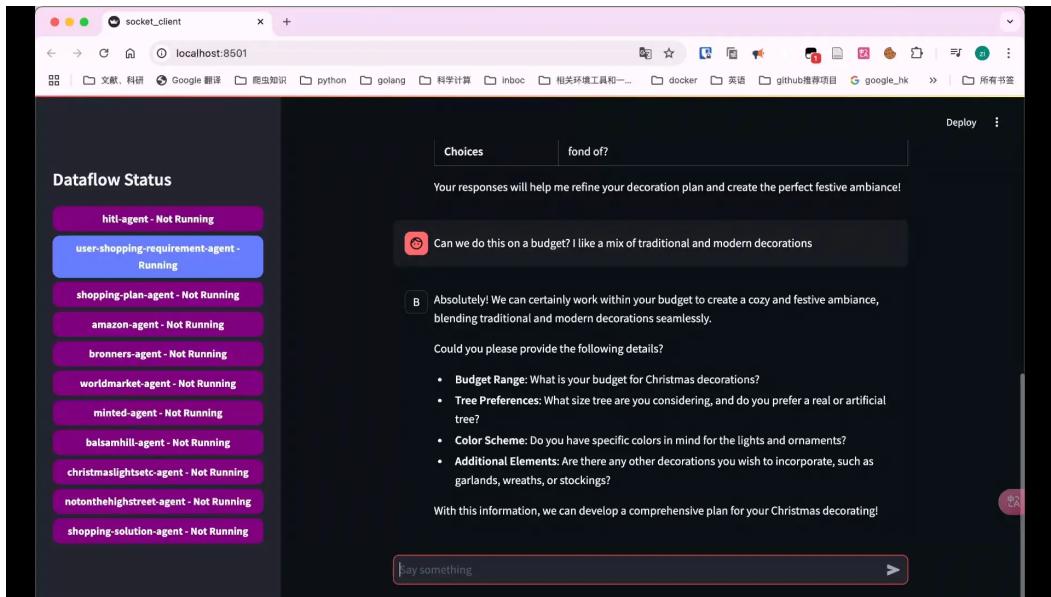
The second screenshot shows the same interface after the user's message. The bot has responded with a message asking for more detail: "It sounds like you're eager to create a warm and inviting Christmas atmosphere in your home! To provide you with the best suggestions, could you please share a bit more detail? Here are a few questions to guide us:". Below this, there is a table with six rows, each containing an 'Area of Interest' and a corresponding 'Question'. At the bottom of the page, a note says "Your responses will help me refine your decoration plan and create the perfect festive ambiance!"

Area of Interest	Questions
Decoration Spaces	What specific areas of your home are you looking to adorn (e.g., living room, exterior, hallway)?
Budget Considerations	Do you have a budget range for your decorations?
Preferred Styles	Are there particular styles or themes you lean towards (e.g., traditional, modern, rustic)?
Christmas Tree	How large do you envision your Christmas tree, and do you prefer a real or artificial one?
Color and Light Choices	Are there specific colors or types of lights and ornaments you are fond of?

The system responds as above, expecting you to provide further details to offer better recommendations.

Step 2: Additional Requirements

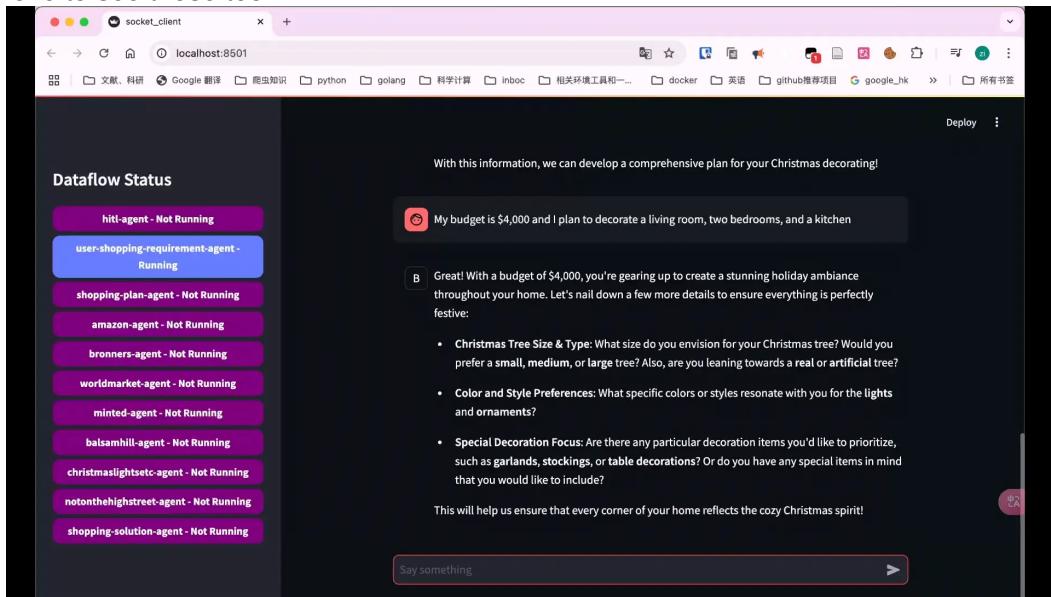
"Can we do this on a budget? I like a mix of traditional and modern decorations."



Continue refining your needs. The system will guide you through your requirements, so feel free to express yourself.

Step 3: Generate Shopping Plan

"Can you put together a list of things I should get? If you have any cute DIY ideas, I'd love to see those too!"



At this point, a rough plan is completed. The system will continue to ask for fine-tuning.

Dataflow Status

- hitl-agent - Not Running
- user-shopping-requiment-agent - Running**
- shopping-plan-agent - Not Running
- amazon-agent - Not Running
- bronners-agent - Not Running
- worldmarket-agent - Not Running
- minted-agent - Not Running
- balsamhill-agent - Not Running
- christmaslightsetc-agent - Not Running
- notonthehighstreet-agent - Not Running
- shopping-solution-agent - Not Running

throughout your home. Let's nail down a few more details to ensure everything is perfectly festive:

- **Christmas Tree Size & Type:** What size do you envision for your Christmas tree? Would you prefer a small, medium, or large tree? Also, are you leaning towards a real or artificial tree?
- **Color and Style Preferences:** What specific colors or styles resonate with you for the lights and ornaments?
- **Special Decoration Focus:** Are there any particular decoration items you'd like to prioritize, such as garlands, stockings, or table decorations? Or do you have any special items in mind that you would like to include?

This will help us ensure that every corner of your home reflects the cozy Christmas spirit!

I have no other requirements.

Bot is typing...

Say something ►

Dataflow Status

- hitl-agent - Not Running
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- shopping-plan-agent - Not Running
- amazon-agent - Not Running
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- worldmarket-agent - Not Running
- minted-agent - Not Running
- balsamhill-agent - Not Running
- christmaslightsetc-agent - Not Running
- notonthehighstreet-agent - Not Running
- shopping-solution-agent - Not Running

This will help us ensure that every corner of your home reflects the cozy Christmas spirit!

I have no other requirements.

User Requirements for Christmas Home Decoration

Goal	Decorate home for Christmas
Budget	\$4000
Areas to Decorate	Living Room, Bedroom 1, Bedroom 2, Kitchen
Decoration Style	A blend of traditional and modern elements
Tree Preference	Not specified
Color Preferences	Not specified

Say something ►

Dataflow Status

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- user-shopping-requiment-agent - Running**
- shopping-plan-agent - Not Running
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- christmaslightsetc-agent - Not Running
- notonthehighstreet-agent - Not Running
- shopping-solution-agent - Not Running

- Living Room:**
 - Utilize a mix of traditional ornaments and modern decor to create a cozy yet stylish environment.
 - Incorporate a Christmas tree that complements the overall theme.
- Bedroom 1:**
 - Add soft lighting and subtle decorations to maintain a serene ambiance while embracing the holiday spirit.
- Bedroom 2:**
 - Consider using festive bedding or throw pillows that reflect your chosen decoration style.
- Kitchen:**
 - Hang garlands or wreaths and place festive cookware or table settings to enhance the holiday cheer.

Next Steps

If you have any specific preferences for the tree or color schemes, please let us know to provide tailored recommendations!

Say something ►

Step 4: Fine-tune the Shopping Plan

"These ideas are awesome! I love the wreath suggestion. Can you also add some nice

dinnerware for our Christmas dinner to the list?"

The screenshots show a web-based application interface with a dark theme, likely a chatbot or AI-powered service.

Dataflow Status:

- hitl-agent - Not Running
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- christmaslightsetc-agent - Not Running
- notonthehighstreet-agent - Not Running
- shopping-solution-agent - Not Running

the holiday spirit.

3. Bedroom 2:

- Consider using festive bedding or throw pillows that reflect your chosen decoration style.

4. Kitchen:

- Hang garlands or wreaths and place festive cookware or table settings to enhance the holiday cheer.

Next Steps

If you have any specific preferences for the tree or color schemes, please let us know to provide tailored recommendations!

OK, I don't have any other questions either

Bot is typing...

Say something >

Shopping Decision Making for Christmas Decorations

When it comes to enhancing your holiday spirit, selecting the right decorations can make all the difference. Below is a curated list of essential shopping needs for your Christmas festivities, complete with specifications, price ranges, and exemplary products.

Shopping Needs Overview

Product Type	Price Range	Specifications	Web Shopping Search Text	Example Product Model
Christmas Tree	100 – 300	Artificial, Pre-lit, 7-9 feet	Artificial Pre-lit Christmas Tree 7-9 feet	National Tree Company Pre-lit Artificial Full Tree
Lighting	50 – 200	LED string lights, Warm white, Indoor/Outdoor	LED string lights warm white indoor outdoor	Twinkle Star 300 LED Window Curtain String Light

Dataflow Status:

- hitl-agent - Not Running
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- balsamhill-agent - Not Running
- christmaslightsetc-agent - Not Running
- notonthehighstreet-agent - Not Running
- shopping-solution-agent - Not Running

Deploy

Category	Price Range	Item Description	Search Text	Example Model
Christmas Tree	100 – 300	Artificial, Pre-lit, 7-9 feet	Artificial Pre-lit Christmas Tree 7-9 feet	National Tree Company Pre-lit Artificial Full Tree
Lighting	50 – 200	LED string lights, Warm white, Indoor/Outdoor	LED string lights warm white indoor outdoor	Twinkle Star 300 LED Window Curtain String Light
Ornaments and Decorations	100 – 400	Traditional and modern mix, Various materials	Traditional modern Christmas ornaments	Valery Madelyn 50ct Christmas Ball Ornaments
Living Room Decor	100 – 500	Throw pillows, blankets, wall hangings	Christmas throw pillows and blankets	OUR WINGS Christmas Pillow Covers
Bedroom Decor	100 – 500	Bedding sets, curtains, small trees	Christmas bedding and curtains	Utopia Bedding Printed Comforter Set
	50 –	Table runners,	Christmas	DII Farmhouse Christmas

Deploy

Say something >

Dataflow Status

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- notonthehighstreet-agent - Not Running
- shopping-solution-agent - Not Running

Decorations	400	smooth, shiny, various materials	Christmas ornaments	SOFT CHAMBRAY Ball Ornaments
Living Room Decor	100 – 500	Throw pillows, blankets, wall hangings	Christmas throw pillows and blankets	OUR WINGS Christmas Pillow Covers
Bedroom Decor	100 – 500	Bedding sets, curtains, small trees	Christmas bedding and curtains	Utopia Bedding Printed Comforter Set
Kitchen Decor	50 – 200	Table runners, placemats, dish towels	Christmas kitchen table runners	DII Farmhouse Christmas Holiday Kitchen Collection

Conclusion

This organized list serves as an excellent starting point for your Christmas shopping. With the right decorations, you can create a festive atmosphere that brings joy to your home and loved ones. Happy shopping!

Say something ➤

Dataflow Status

- hit-agent - Not Running
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- notonthehighstreet-agent - Not Running
- shopping-solution-agent - Not Running

Kitchen Decorations	50 – 150	Table centerpiece, placemats, and napkin rings	Christmas Table Centerpiece Placemats Napkin Rings	Bedding Set
				RUNNING... Stop Deploy ⋮

Conclusion

This table serves as a comprehensive guide to help you make informed decisions while shopping for your Christmas decorations and essentials. Each product category provides a range of options that cater to different budgets and specifications. Happy shopping!

Okay, I am very satisfied with this plan

B

Bot is typing...

Say something ➤

Step 5: Provide Product Recommendations

"Okay, I am very satisfied with this plan." I have no other requirements.

Dataflow Status

- hit-agent - Not Running
- user-shopping-requirement-agent - Not Running
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- bronners-agent - Not Running
- worldmarket-agent - Not Running
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- christmaslights-setc-agent - Not Running
- notonthehighstreet-agent - Not Running
- shopping-solution-agent - Not Running

Wreaths and Garlands	50 – 200	Traditional style, decorated	Christmas wreath and garland	Balsam Hill Frosted Fraser Fir Wreath
Decorative Accents	200 – 500	Includes candles, figurines, and textiles	Christmas decorative accents candles figurines	Pier 1 Imports Christmas Decor Collection

This guide provides a structured approach to help you navigate your holiday shopping efficiently. Each product type is accompanied by important details to assist in making informed purchasing decisions. Happy shopping!

Can you put together a list of things I should get? If you have any cute DIY ideas, I'd love to see those too

B

Bot is typing...

Say something ➤

Dataflow Status

- hitl-agent - Not Running
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- worldmarket-agent - Not Running
- minted-agent - Not Running
- balsamhill-agent - Not Running
- christmaslightset-agent - Not Running
- notonthehighstreet-agent - Not Running
- shopping-solution-agent - Running

Size	feet	Material	Dimensions
Decorative Accents	30-200	Stockings, Centerpieces, Table runners, Modern and traditional styles	Christmas stockings centerpieces table runners
DIY Kits	10-50	Includes all materials for home decor, Easy to moderate skill level	Kurt Adler Traditional Stocking Holder Set
			Creativity for Kids Christmas Craft Kit

By utilizing this guide, you can make informed choices that cater to your holiday decorating needs. Happy shopping!

I have no other requirements.

Bot is typing...

Say something

Search | Balsam Hill

Free Shipping - most orders arrive in 2-5 days! Details

BALSAM HILL

Save up to 50% + Free Shipping Ends Midnight Shop Sale

We use cookies and tracking technologies to make our website easy and meaningful for you, to provide our services, analyze usage, and to deliver personalized advertising. To do this, we share information about your use of our site with our third-party service providers. See our [Privacy Policy](#) for more information.

Size	feet	Material	Dimensions
0-00	Stockings, Centerpieces, Table runners, Modern and traditional styles	Christmas stockings centerpieces table runners	Kurt Adler Traditional Stocking Holder Set
0-50	Includes all materials for home decor, Easy to moderate skill level	Christmas DIY kits home decor	Creativity for Kids Christmas Craft Kit

By utilizing this guide, you can make informed choices that cater to your holiday decorating needs. Happy shopping!

I have no other requirements.

Bot is typing...

Say something

The system will start retrieving data from shopping websites to search for items in your plan. The data status on the left will update to the result search phase, which is the shopping-solution-agent.

The screenshot shows a web-based application interface. On the left, a sidebar titled "Dataflow Status" lists various agents: hitl-agent (Not Running), user-shopping-requirement-agent (Not Running), shopping-plan-agent (Not Running), amazon-agent (Not Running), bronners-agent (Not Running), worldmarket-agent (Not Running), minted-agent (Not Running), balsamhill-agent (Not Running), christmaslightsset-agent (Not Running), notonthehighstreet-agent (Not Running), and shopping-solution-agent (Running). On the right, a main panel starts with a message: "By utilizing this guide, you can make informed choices that cater to your holiday decorating needs. Happy shopping!" Below this is a button labeled "I have no other requirements." A section titled "Shopping Decision Making for Christmas Decor" contains a table for "User Requirements Description". The table has two rows:

Category	Preferences
Christmas Trees and Decorations	- Traditional or modern Christmas trees and decorations - Modern Christmas decor for bedrooms and kitchens
Lighting	- LED string lights for indoor use

A "Say something" input field with a send button is at the bottom.

Due to varying network speeds in different regions, the system's response time may take around 1-2 minutes. Once the search is complete, the system will provide a final report as shown in the example.

Note: Our item search agent is based on Selenium, so results may be affected by webpage changes or network conditions. It's normal for the agent to sometimes find no items, and results may not be consistent every time.

The screenshot shows the same application interface after the search is completed. The "Dataflow Status" sidebar remains the same. The main panel now displays a "Proposed Shopping Plan". Under "Plan 1 Overview", there is a table:

Plan ID	Total Cost	Currency	Validation Status
Plan 1	1299.98	¥	Valid

Below this is a "Product Details" section for "1. Modern Christmas Tree - 6ft". The details are:

- Product Type: Christmas Trees and Decorations
- Brand: Festive Home
- Model: FT-2023-MT

A "Say something" input field with a send button is at the bottom.

socket_client

localhost:8501

Dataflow Status

- hitl-agent - Not Running
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- minted-agent - Not Running
- balsamhill-agent - Not Running
- christmaslightset-agent - Not Running
- notonthehighstreet-agent - Not Running
- shopping-solution-agent - Running

Product Details

1. Modern Christmas Tree - 6ft

Product Type: Christmas Trees and Decorations

- Brand: Festive Home
- Model: FT-2023-MT
- Specifications: 6-foot modern Christmas tree with built-in LED lights, easy setup
- Price: ¥999.99
- Availability: In Stock
- Product Link: [View Product](#)
- Seller:
 - Name: BestDecor
 - Rating: 4.7

Say something

socket_client

localhost:8501

Dataflow Status

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- minted-agent - Not Running
- balsamhill-agent - Not Running
- christmaslightset-agent - Not Running
- notonthehighstreet-agent - Not Running
- shopping-solution-agent - Running

Price: ¥999.99

Availability: In Stock

Product Link: [View Product](#)

Seller:

- Name: BestDecor
- Rating: 4.7
- Location: Tokyo, Japan
- Store Link: [Visit Store](#)

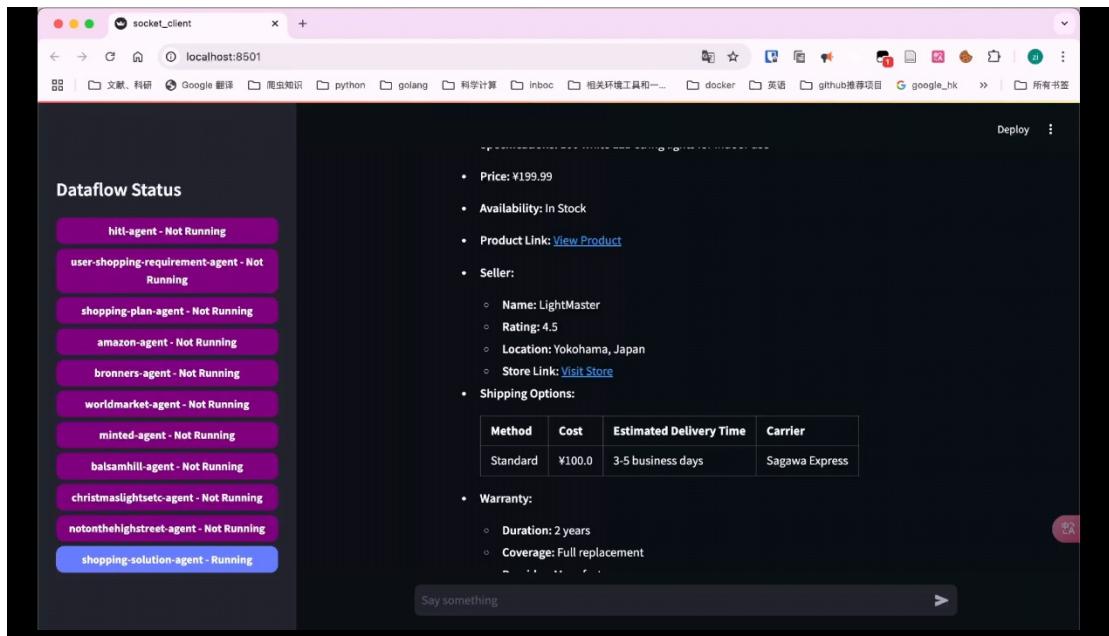
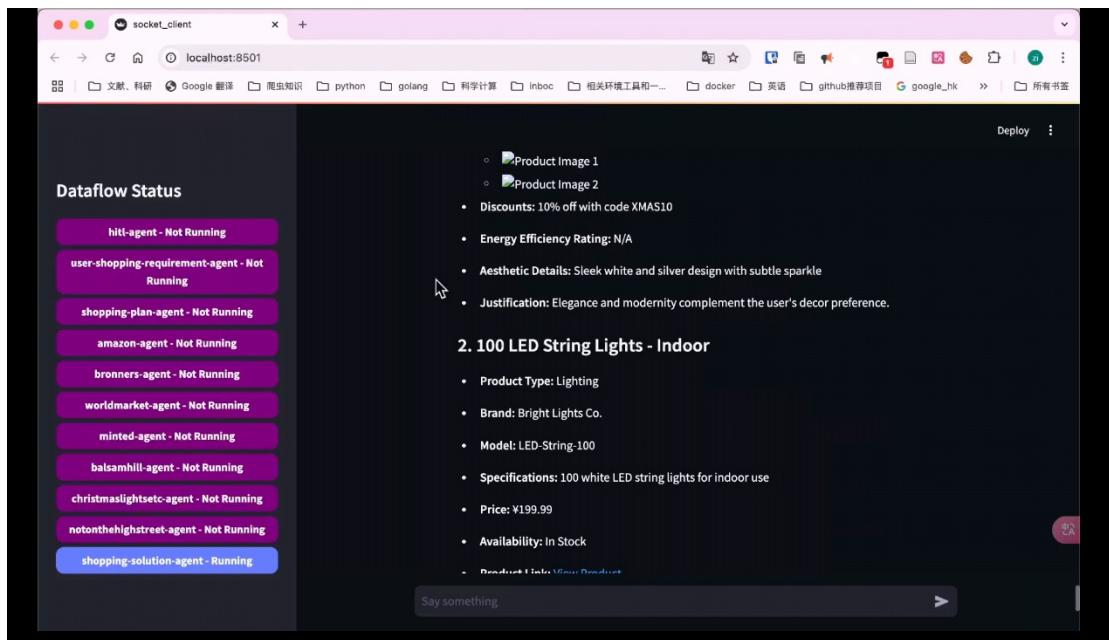
Shipping Options:

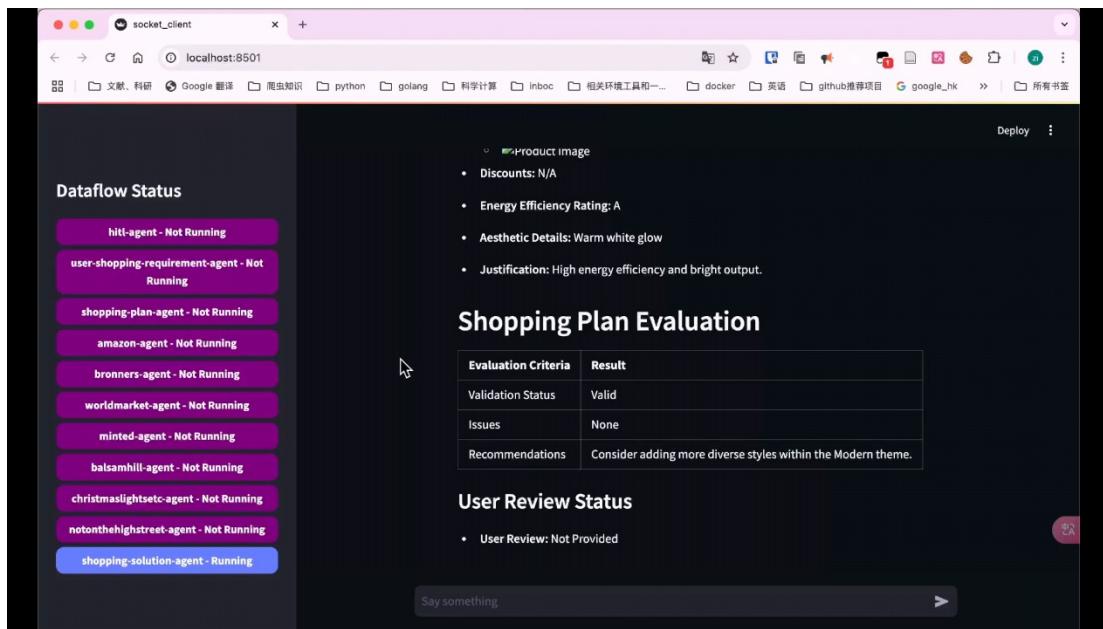
Method	Cost	Estimated Delivery Time	Carrier
Standard	¥150.0	5-7 business days	Japan Post
Express	¥300.0	2-3 business days	FedEx

Warranty:

- Duration: 1 year
- Coverage: Parts and labor

Say something





The system will ultimately provide a comprehensive shopping suggestion, including multiple items. Each item's type, brand, model, features, price, and discounts will be summarized for you. Finally, an evaluation of the shopping plan will be provided to help you better adjust your plan.

5 Common Issues

5.1 Troubleshooting

- a. Errors due to incorrect proxy node settings causing access denial or slow network speeds, or connection errors due to node issues.

```
[ERROR]
Dataflow 0193d905-8308-7a56-8142-fc7fe8660967 failed:

Node `user-shopping-requirement-agent` failed: exited with code 1
with stderr output:
-----
[...]      File "/root/miniconda3/envs/py310/lib/python3.10/site-
           packages/openai/_base_client.py", line 957, in request
                  return self._request(
                      File "/root/miniconda3/envs/py310/lib/python3.10/site-pac-
           kages/openai/_base_client.py", line 1061, in _request
                  raise self._make_status_error_from_response(err.respon-
e) from None

PermissionDeniedError: Error code: 403 - {'error': {'code': 'unsupported_country_region_territory', 'message': 'Country, reg-
           ion, or territory not supported', 'param': None, 'type': 'request-
           forbidden'}}

Location:
binaries/runtime/src/operator/python.rs:28:9
-----
```

```
Traceback (most recent call last):
  File "/root/miniconda3/envs/py310/bin/hitl-agent", line 8
    , in <module>
      sys.exit(main())
  File "/home/testMofaEnv/mofa_berkeley_hackathon/python/be
rkeley-hackathon/shopping_agents/hitl-agent/hitl_agent/main
.py", line 245, in main
    send_task_and_receive_data(node)
  File "/home/testMofaEnv/mofa_berkeley_hackathon/python/be
rkeley-hackathon/shopping_agents/hitl-agent/hitl_agent/main
.py", line 131, in send_task_and_receive_data
    click_log(event=event, click=click)
  File "/home/testMofaEnv/mofa_berkeley_hackathon/python/be
rkeley-hackathon/shopping_agents/hitl-agent/hitl_agent/main
.py", line 105, in click_log
    node_results = json.loads(event['value'].to_pylist()[0]
)
KeyError: 'value'
```

Solution: Change the proxy node to a U.S. node, even if the latency is higher than other Asian or European nodes.

b. Update Guide

Front-end Dataflow Status Not Updating

1. The agent-node did not start successfully. Check the logs located in out/dataflow_id/*.log to identify any node startup errors.
2. If the agent-node has completed its tasks according to the logs but the status is not reflected on the page, there may be an issue with the page display or data transmission. In this case, please contact us by submitting an issue on GitHub Issues. We will respond promptly to address your concerns.

c. How to View Running Logs

1. After starting the system with dora-dataflow, an out directory will be created in your current directory.
2. If the agent-node has completed its tasks according to the logs but the status is not reflected on the page, there may be an issue with the page display or data transmission. In this case, please contact us by submitting an issue on GitHub Issues. We will respond promptly to address your concerns.

6. Maintenance and Updates

6.1 Update Guide

Run the following commands to fetch the latest code before running the backend:

```
git fetch origin
git pull origin develop
```

Our branch is develop. If you switch branches, replace with the branch name you want to pull.

7. Support and Feedback

Technical Support: If you have any questions about the code or anything else, feel free to contact our technical team:

Feedback Channels: You can submit a pull request on GitHub or use the contact information above to communicate your suggestions or feedback to our technical team.